This Assignment is effective as of November 4, 2003. For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, Nathaniel M. Sims, of Milton. Massachusetts; Nhedti Colquitt, of Aloha, Oregon; Michael Wollowitz, of Chatham, Massachusetts; Matt. Hickcox, of Devens, Massachusetts; and Michael Dempsey, of Groton, Massachusetts; by virtue of assignment provisions in an employment contract preexisting the application filing date noted below, hereby confirm our assignment to THE GENERAL HOSPITAL CORPORATION, a corporation of Massachusetts, having a place of business at 55 Fruit Street, Boston, Massachusetts 02114; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title, and interest throughout the world in the inventions and improvements which are the subject of a utility application entitled LIFE SIGN DETECTION AND HEALTH STATE ASSESSMENT SYSTEM, filed on May 3, 2006, and assigned Serial Number 10/595,672, and the subject of PCT Application Serial No. PCT/US04/36587, filed on November 3, 2004, and U.S. Provisional Application Serial No. 60/517,149, filed on November 4, 2003 (to which the utility application claims priority); this assignment including said application, any and all United States and foreign patents, utility patents and models, continuations, continuations-in-part, divisionals, reexaminations, reissues, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said applications under all treaties; and this assignment also including, without limitation, any claims (known or unknown, suspected or unsuspected) of any nature that we have or may have against any party for infringement of any of the patents and patent applications listed herein, and the right to sue for past infringement and to recover and retain damages and profits in respect thereof; and

we hereby confirm our prior authorization of the Assignee, as of <u>November 4, 2003</u>, to apply in all countries in our name or in its own name for patents, utility models, design registrations, and like rights of exclusion and for inventors' certificates for said inventions and improvements; and

we hereby covenant and agree that we will communicate to the Assignee or nominees all facts known to us pertaining to said inventions and improvements, and we agree for ourselves and our respective heirs, legal representatives, and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, reissues, Preliminary Statements, and other lawful documents, testify in all legal proceedings, make all rightful oaths and declarations, and in general perform or cause to be performed all lawful acts necessary or proper to aid the Assignee or nominees in obtaining, maintaining, and enforcing all lawful patent protection for the inventions and improvements in the United States and in foreign countries; and

DATE: 4125/11

NATUUL IV

STATE OF WILLISS CLARE (44)

) SS.

COUNTY OF Suggeste

WITNESS my hand and official seal.

Materia Public

lotary Public

FILE OF THOMAS

FALLERY Public

Formulation and Mannechusetts

An Commission Expirus

May 9 2014

DATE:	
	NHEDTI COLQUITT
STATE OF	,
31A1L 01) SS.
COUNTY OF) 55.
On	, before me, the undersigned, a notary public for the State of
	, there personally appeared NHEDTI COLQUITT personally known to me (or proved
who acknowledged.	f satisfactory evidence) to be the person whose name is subscribed to this Assignment, having executed the same in his authorized capacity and that by his signature on this on or the entity upon behalf of which he acted, executed this Assignment.
WITNESS to	my hand and official seal.
	N. C. D. I.
	Notary Public

DATE:	
	MICHAEL WOLLOWITZ
STATE OF)
) SS.
COUNTY OF	j
On	, before me, the undersigned, a notary public for the State of
, t	here personally appeared MICHAEL WOLLOWITZ personally known to me (or
proved to me on the b	asis of satisfactory evidence) to be the person whose name is subscribed to this
	owledged having executed the same in his authorized capacity and that by his nament, the person or the entity upon behalf of which he acted, executed this
WITNESS my b	nand and official seal.
	Notary Public

DATE:	
	MATT HICKCOX
STATE OF)
) SS.
COUNTY OF)
On	, before me, the undersigned, a notary public for the State of
	, there personally appeared MATT HICKCOX personally known to me (or proved to
acknowledged havin	isfactory evidence) to be the person whose name is subscribed to this Assignment, who g executed the same in his authorized capacity and that by his signature on this on or the entity upon behalf of which he acted, executed this Assignment.
WITNESS or	y hand and official seal.
	Notary Public

MICHAEL DEMPSEY
)
) SS.
) 35.
, before me, the undersigned, a notary public for the State or
ersonally appeared MICHAEL DEMPSEY personally known to me (or proved
ctory evidence) to be the person whose name is subscribed to this Assignment executed the same in his authorized capacity and that by his signature on this entity upon behalf of which he acted, executed this Assignment.
and official seal.
Notary Public

This Assignment is effective as of November 4, 2003. For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, Nathaniel M. Sims, of Milton, Massachusetts; Nhedti Colquitt, of Aloha, Oregon; Michael Wollowitz, of Chatham, Massachusetts; Matt Hickcox, of Devens, Massachusetts; and Michael Dempsey, of Groton, Massachusetts; by virtue of assignment provisions in an employment contract preexisting the application filing date noted below, hereby confirm our assignment to THE GENERAL HOSPITAL CORPORATION, a corporation of Massachusetts, having a place of business at 55 Fruit Street, Boston, Massachusetts 02114; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title, and interest throughout the world in the inventions and improvements which are the subject of a utility application entitled LIFE SIGN DETECTION AND HEALTH STATE ASSESSMENT SYSTEM, filed on May 3. 2006, and assigned Serial Number 10/595.672, and the subject of PCT Application Serial No. PCT/US04/36587, filed on November 3, 2004, and U.S. Provisional Application Serial No. 60/517,149, filed on November 4, 2003 (to which the utility application claims priority); this assignment including said application, any and all United States and foreign patents, utility patents and models, continuations, continuations-in-part, divisionals, reexaminations, reissues, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said applications under all treaties; and this assignment also including, without limitation, any claims (known or unknown, suspected or unsuspected) of any nature that we have or may have against any party for infringement of any of the patents and patent applications listed herein, and the right to sue for past infringement and to recover and retain damages and profits in respect thereof; and

we hereby confirm our prior authorization of the Assignee, as of <u>November 4, 2003</u>, to apply in all countries in our name or in its own name for patents, utility models, design registrations, and like rights of exclusion and for inventors' certificates for said inventions and improvements: and

we hereby covenant and agree that we will communicate to the Assignee or nominees all facts known to us pertaining to said inventions and improvements, and we agree for ourselves and our respective heirs, legal representatives, and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, reissues, Preliminary Statements, and other lawful documents, testify in all legal proceedings, make all rightful oaths and declarations, and in general perform or cause to be performed all lawful acts necessary or proper to aid the Assignee or nominees in obtaining, maintaining, and enforcing all lawful patent protection for the inventions and improvements in the United States and in foreign countries; and

DATE:	
	NATHANIEL M. SIMS
STATE OF	
7171L O1) SS.
COUNTY OF	
On	, before me, the undersigned, a notary public for the State of
there	personally appeared NATHANIEL M. SIMS personally known to me (or proved t
cknowledged having e	actory evidence) to be the person whose name is subscribed to this Assignment, wh executed the same in his authorized capacity and that by his signature on this or the entity upon behalf of which he acted, executed this Assignment.
WITNESS my h	and and official seal.
	Notary Public

DATE: Dec. 4, 9010

Aletti Colguett

STATE OF Gryon

COUNTY OF WAShinston

On the personally appeared NHEDTI COLQUITT personally known to me (or proved to me and he basis of satisfactory evidence) to be the person whose name is subscribed to this Assignment, who acknowledged having executed the same in his authorized capacity and that by his signature on this Assignment, the person or the entity upon behalf of which he acted, executed this Assignment.

WITNESS my hand and official seal.

OFFICIAL SEAL

DAWN CHAU MUNGER

NOTARY PUBLIC-OREGON

COMMISSION NO. 444319

COMMISSION NO. 444319

DATE:	
	MICHAEL WOLLOWITZ
STATE OF)
) SS.
COUNTY OF)
On	, before me, the undersigned, a notary public for the State of
	there personally appeared MICHAEL WOLLOWITZ personally known to me (or
proved to me on the	ne basis of satisfactory evidence) to be the person whose name is subscribed to this
	cknowledged having executed the same in his authorized capacity and that by his
	assignment, the person or the entity upon behalf of which he acted, executed this
Assignment,	
nam maa	1 1 2 07 11 1
WIINESS	ny hand and official seal.
	Notary Public
	rotary r done

DATE:	
-	MATT HICKCOX
STATE OF	}
) SS.
COUNTY OF)
On	, before me, the undersigned, a notary public for the State of
, there	personally appeared MATT HICKCOX personally known to me (or proved t
acknowledged having execu	y evidence) to be the person whose name is subscribed to this Assignment, wh ted the same in his authorized capacity and that by his signature on the entity upon behalf of which he acted, executed this Assignment.
WITNESS my hand	and official seal.
	Notary Public

DATE:	
	MICHAEL DEMPSEY
STATE OF)
*********) SS.
COUNTY OF)
On	, before me, the undersigned, a notary public for the State of
***************************************	, there personally appeared MICHAEL DEMPSEY personally known to me (or proved
who acknowledge	is of satisfactory evidence) to be the person whose name is subscribed to this Assignment ed having executed the same in his authorized capacity and that by his signature on this person or the entity upon behalf of which he acted, executed this Assignment.
WITNES	S my hand and official seal.

	Notary Public

This Assignment is effective as of November 4, 2003. For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, Nathaniel M. Sims, of Milton, Massachusetts; Nhedti Colquitt, of Aloha, Oregon; Michael Wollowitz, of Chatham, Massachusetts; Matt Hickcox, of Devens, Massachusetts; and Michael Dempsey, of Groton, Massachusetts; by virtue of assignment provisions in an employment contract preexisting the application filing date noted below, hereby confirm our assignment to THE GENERAL HOSPITAL CORPORATION, a corporation of Massachusetts, having a place of business at 55 Fruit Street, Boston, Massachusetts 02114; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title, and interest throughout the world in the inventions and improvements which are the subject of a utility application entitled LIFE SIGN DETECTION AND HEALTH STATE ASSESSMENT SYSTEM, filed on May 3. 2006, and assigned Serial Number 10/595,672, and the subject of PCT Application Serial No. PCT/US04/36587, filed on November 3, 2004, and U.S. Provisional Application Serial No. 60/517.149, filed on November 4, 2003 (to which the utility application claims priority); this assignment including said application, any and all United States and foreign patents, utility patents and models, continuations, continuations-in-part, divisionals, reexaminations, reissues, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said applications under all treaties; and this assignment also including, without limitation, any claims (known or unknown, suspected or unsuspected) of any nature that we have or may have against any party for infringement of any of the patents and patent applications listed herein, and the right to sue for past infringement and to recover and retain damages and profits in respect thereof; and

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we hereby covenant and agree that we will communicate to the Assignee or nominees all facts known to us pertaining to said inventions and improvements, and we agree for ourselves and our respective heirs, legal representatives, and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, reissues, Preliminary Statements, and other lawful documents, testify in all legal proceedings, make all rightful oaths and declarations, and in general perform or cause to be performed all lawful acts necessary or proper to aid the Assignee or nominees in obtaining, maintaining, and onforcing all lawful patent protection for the inventions and improvements in the United States and in foreign countries; and

Notary Public

Assignment, the person or the entity upon behalf of which he acted, executed this Assignment.

we hereby covenant that we have the full right to convey the entire right, title, and interest herein

WITNESS my hand and official seal.

DATE:	
	NHEDTI COLQUITT
STATE OF)
) SS.
COUNTY OF)
On	, before me, the undersigned, a notary public for the State of
	there personally appeared NHEDTI COLQUITT personally known to me (or proved
who acknowledged have	tisfactory evidence) to be the person whose name is subscribed to this Assignment, ing executed the same in his authorized capacity and that by his signature on this or the entity upon behalf of which he acted, executed this Assignment.
WITNESS my I	nand and official seal.
	Notary Public

DATE: Oct. 28, 2010 MUHAEL WOLLOWITZ
STATE OF New York COUNTY OF Columbia SS.
On Oct 28, 2010 , before me, the undersigned, a notary public for the State of
there personally appeared MICHAEL WOLLOWITZ personally known to me (or
proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to this
Assignment, who acknowledged having executed the same in his authorized capacity and that by his
signature on this Assignment, the person or the entity upon behalf of which he acted, executed this
Assignment,

Notary Public

WITNESS my hand and official seal.

DONNA M. CASEY Notary Public, State of New York Qualified in Columbia County Reg No. 4976225 Commission Expires Jan. 14, 20

DATE:	
	MATT HICKCOX
STATE OF)
) SS.
COUNTY OF)
On	, before me, the undersigned, a notary public for the State of
	, there personally appeared MATT HICKCOX personally known to me (or proved to
acknowledged havin	isfactory evidence) to be the person whose name is subscribed to this Assignment, who g executed the same in his authorized capacity and that by his signature on this on or the entity upon behalf of which he acted, executed this Assignment.
WITNESS or	y hand and official seal.
	Notary Public

MICHAEL DEMPSEY
)
) SS.
) 35.
, before me, the undersigned, a notary public for the State or
ersonally appeared MICHAEL DEMPSEY personally known to me (or proved
ctory evidence) to be the person whose name is subscribed to this Assignment executed the same in his authorized capacity and that by his signature on this entity upon behalf of which he acted, executed this Assignment.
and official seal.
Notary Public

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DATE:	NATHANIEL M. SIMS
STATE OF) \$5.
COUNTY OF	
On	, before me, the undersigned, a notary public for the State or resonally appeared NATHANIEL M. SIMS personally known to me (or proved to
acknowledged having exe Assignment, the person or	cuted the same in his authorized capacity and that by his signature on thi he entity upon behalf of which he acted, executed this Assignment.
WITNESS my har	d and official scal.
	Notary Public

Attorney Docket No: 90786-9759US1 - MGH 92357

DATE:	NHEDTI COLQUITT
STATE OF) SS.
COUNTY OF)
On	, before me, the undersigned, a notary public for the State of e personally appeared NHEDTI COLQUITT personally known to me (or prove
who auknowledged having Assignment, the person or th WITNESS my hand	executed the same in his authorized capacity and that by his signature on the entity upon behalf of which he acted, executed this Assignment. and official seal.
	Notary Public

DATE:	
	MICHAEL WOLLOWITZ
STATE OF)
) SS.
COUNTY OF) ""
On	, before me, the undersigned, a notary public for the State of
, ther	re personally appeared MICHAEL WOLLOWITZ personally known to me (or
	s of satisfactory evidence) to be the person whose name is subscribed to this
	ledged having executed the same in his authorized capacity and that by his
	nent, the person or the entity upon behalf of which he acted, executed this
Assignment.	
WITNESS my ban	d and official seal.
	Notary Public
	-

Attorney Docket Not 06786-0759US1 - MGH 02357

DATE 11/1/2010 MATT MICKEDS
STATE OF (MASA) SS. COUNTY OF MASS (OX)
ONTY OR the State of On the Onto One of the State of One o
Assignment, the person or the entity upon behalf of which he acted, executed this Assignment.
WITNESS my hand and official seal.

Notary Public

MICHAEL DEMPSEY
)
) SS.
) 35.
before me, the undersigned, a notary public for the State of
there personally appeared MICHAEL DEMPSEY personally known to me (or proved
of satisfactory evidence) to be the person whose name is subscribed to this Assignment, having executed the same in his authorized capacity and that by his signature on this son or the entity upon behalf of which he acted, executed this Assignment.
my hand and official seal.
2.7
Notary Public

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DATE:	
	NATHANIEL M. SIMS
ET ATE OF	,
STATE OF) SS.
COUNTY OF) 55.
	, before me, the undersigned, a notary public for the State or
	nally appeared NATHANIEL M. SIMS personally known to me (or proved to
ne on the basis of satisfactory scknowledged having execute	evidence) to be the person whose name is subscribed to this Assignment, who do the same in his authorized capacity and that by his signature on this entity upon behalf of which he acted, executed this Assignment.
WITNESS my hand ar	nd official seal.
	Notary Public

DATE:	
	NHEDTI COLQUITT
STATE OF	,
31A1L 01) SS.
COUNTY OF) 55.
On	, before me, the undersigned, a notary public for the State of
	, there personally appeared NHEDTI COLQUITT personally known to me (or proved
who acknowledged.	f satisfactory evidence) to be the person whose name is subscribed to this Assignment, having executed the same in his authorized capacity and that by his signature on this on or the entity upon behalf of which he acted, executed this Assignment.
WITNESS to	my hand and official seal.
	N. C. D. I.
	Notary Public

DATE:	
	MICHAEL WOLLOWITZ
STATE OF)
) SS.
COUNTY OF	j
On	, before me, the undersigned, a notary public for the State of
, t	here personally appeared MICHAEL WOLLOWITZ personally known to me (or
proved to me on the b	asis of satisfactory evidence) to be the person whose name is subscribed to this
	owledged having executed the same in his authorized capacity and that by his nament, the person or the entity upon behalf of which he acted, executed this
WITNESS my b	nand and official seal.
	Notary Public

DATE:	
	MATT HICKCOX
STATE OF)
) SS.
COUNTY OF)
On	, before me, the undersigned, a notary public for the State of
	, there personally appeared MATT HICKCOX personally known to me (or proved to
acknowledged havin	isfactory evidence) to be the person whose name is subscribed to this Assignment, who g executed the same in his authorized capacity and that by his signature on this on or the entity upon behalf of which he acted, executed this Assignment.
WITNESS or	y hand and official seal.
	Notary Public

Attorney Docket No: 00786-0759US1 - MGH 02357

DATE: <u>MAY 1, 2011</u>	MICHAEL DEMPSEY
STATE OF Sachasetta	
COUNTY OF Suffel &) SS.	
On May 2011, be	efore me, the undersigned, a notary public for the State of and MICHAEL DEMPSEY personally known to me (or proved
to me on the basis of satisfactory evidence) to who acknowledged having executed the same	be the person whose name is subscribed to this Assignment, e in his authorized capacity and that by his signature on this

WITNESS my hand and official seal.

Jose M. Doverumo

Notary Public

ASSIGNMENT OF INVENTION

Title of Invention: LIFE SIGN DETECTION AND HEALTH STATE ASSESSMENT SYSTEM

Inventors: NATHANIEL M. SIMS, NRIEDTI COLQUITT, MICHAEL WOLLOWITZ, MATT HICKCOX, MICHAEL DEMPSEY, REED W. HOYT, MARK J. BULLER and KIRN 5, AMES,

Dates Declaration of Inventorship Executed:

Application Serial Nos.: 10/595,672

We, the undersigned inventors, in consideration of the rights of the Government of the United States acquired by virtue of the circumstances under which the above-entitled invention was made, hereby:

- Assign to the Government of the United States, as represented by the Secretary of the Army, the emire right, title, and interest throughout the United States, its Territories, Possessions, and Puerto Rico, in and to the above-confided invention and application for patent all Letters Patent issuing thereon, and any continuation, continuation-in-part, or division of said application and any reissue of extension of said Letters Parent.
- Assign to the Government all right, title, and interest in the invention in those foreign countries in which the Government determines to cause an application to be filed, including but not limited to Australia, Canada, Mexico, Japan and the countries of the European Union.
- Agree to provide any further information within our knowledge and to execute any further documents pecessary to the prosecution of patent applications on the invention, the prosecution of interference's, and recording of title of patent applications and patents issning thereon.

Inventor's Signature: Report of Inventor.
STATE OF MASSACHUSEATS
COUNTY OF <u>DIAGRESCE</u>
On the above date, known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that the same as his own free act and de-

(SEAL)

My Commission expires on ____

Notary Public SEALTH OF MASSACHUSES ly Cramaniasion Expires WWWY 17, 2014

ASSIGNMENT OF INVENTION

Title of investion: LIFE SIGN DETECTION AND HEALTH STATE ASSESSMENT SYSTEM

HIVERTON NATHANIEL M. SIMS, NHEDTI COLQUITT, MICHAEL WOLLOWITZ, MATT HICKCOX, MICHAEL DEMPSEY, REED J. HOYT, MAEK J. BULLER and JOHN 5. AMES.

Dates Declaration of Inventorship Executed:

Application Serial Nos.: 10/595,672

We, the undersigned inventors, in consideration of the rights of the Government of the United States acquired by virtue of the circumstances under which the above-entitled invention was made, hereby:

- Assign to the Government of the United States, as represented by the Secretary of the Army, the
 cution right, tills, and interest throughout the United States, its Territories, Possessions, and Poerics Rice, in
 and to the above-entitled invention and application for patient all Letters Patient issuing thereon, and any
 constitutation, continuation-in-part, or division of said application and any recissuo of extension of said
 Letters Patient.
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- Agree to provide any further information within our knowledge and to execute eny further documents necessary to the prosecution of patent applications on the inventors, the prosecution of interference's, and recording of title of patent applications and patents issuing thereon.

Date: 1/1/2010	Typed Name of inventor:	MARK	3.	BULLER
STATE OF <u>WA</u>	SAMMON.			

On the above date, known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to nigate the same as his own free act and deed.

(SEAL)

NOTARY PUBLIC

My Commission expires on

ALIX BELANDRIA Norry Public Commonwealth of Massachusens

ASSIGNMENT OF INVENTION

Title of Invention: LIFE SIGN DETECTION AND HEALTH STATE ASSESSMENT SYSTEM

Inventors: NATHANIEL M. SIMS, NHEDTI COLQUITT, MICHAEL WOLLOWITZ, MATT HICKCOX, MICHAEL DEMPSEY, REED J. HOYT, MARK J. BULLER and JOHN S. AMES.

Dates Declaration of Inventorship Executed:

Application Serial Nos.: 10/595,672

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- Assign to the Government all right, title, and interest in the invention in those foreign countries in which the Government determines to cause an application to be filed, including but not limited to Australia, Canada. Mexico. Japan and the countries of the European Union.
- Agree to provide any further information within our knowledge and to execute any further documents necessary to the prosecution of patent applications on the invention, the prosecution of interference's, and recording of title of patent applications and patents issuing thereon.

Inventor's Signature:	Pal Sa
Date: 1.4.11	Typed Name of Inventor:
STATE OF Massach	ust the
STATE OF <u>Massachu</u> COUNTY OF <u>Midd</u> e	lexact
	me to be the individual described in and who executed the foregoing fore me and acknowledged to me that the same as his own free act and deed.
(SEAL)	Sanda & Mil
	Sandia L. M. Luggan
	My Commission expires on

SANDRA J. MCQUIGGAN
Notary Public
COMMONWEALTH OF MASSACHUSETTS
My Commission Expires
June 89, 2017